

Lab results: 1 doz grains of rice = _____g (Use this fact as a conversion factor.)

? grains of rice = 1.94 g

Avogadro's Number - the _____ = the number _____

Molar Mass

the _____ of one _____ of any _____

molar mass of an element (g/mol)

equals the _____ of the element in grams

molar mass of a compound

equals the _____ of the _____ of the _____ making up the _____

example problems:

Find the molar masses of-

magnesium _____ g/mol

chlorine _____ g/mol

magnesium chloride _____ g/mol

Find the molar mass of aluminum oxide.

How many moles of atoms are there in 8.0 g of Mg?

How many atoms are in 0.7 g of He?

Work Problem Set #1 on back.

more example problems:

What would be the mass of 5.3×10^{22} formula units of calcium iodide?

Episode 701 Problems: *Fill in masses from lab data and solve.*

How many atoms are in _____ grams of copper?

How many formula units are in _____ grams of salt?

How many molecules are in _____ grams of water?

The Chemistry Quiz

CR1. _____

CR2. _____

1. _____

2. _____

3. _____

4. _____

5. _____